

# MATSUSHITA Compressor

## MODEL# SD48C10JAU6

Single Phase  
R-134a

115 V  
60 Hz

**Voltage Range** ..... 103 Volts to 127 Volts @ 60 Hz  
**Application** ..... Low Back Pressure  
**Compressor Cooling** ..... Static Cooling

### Rated Performance Data

**Capacity** ..... 550 Btu/h  $\pm 10\%$ \*  
**E.E.R.** ..... 4.43 Btu/Wh  $\pm 10\%$ \*  
**Current** ..... 1.25 Amps \*

**Nominal Motor Data**      Motor Input ..... 124 Watts\*  
 Rated Current ..... 1.28 Amps  
 Type ..... RSCR, PTC relay

**Locked Rotor** ..... 10.30 Amps  
**Start Current** ..... 18.29 Amps  
**Coil Resistances**      Run ..... 3.45 Ohms  
 @ 68°F (20°C)      Start ..... 5.36 Ohms

### \*Test Conditions for Performance Specifications

Test Oil ..... Freol  $\alpha$  22  
 Shell Temp ..... 170.0°F / 76.0°C  
 Condensing Temp ..... 130.0°F / 54.4°C  
 Evaporating Temp ..... -10.0°F / -23.3°C  
 Ambient Temp ..... 90.0°F / 32.2°C  
 Gas Superheat ..... 90.0°F / 32.2°C  
 Liquid Sub-Cooling ..... 90.0°F / 32.2°C

### Electrical Accessories

#### Overload Protector

Nominal Operating Characteristics

Model Name	T130AH6·1
Manufacturer	Matsushita
Temperature To	Open: 266°F $\pm 9\%$ / 130°C $\pm 5\%$ Close: 176°F $\pm 27\%$ / 80°C $\pm 15\%$
Trip Current	@212°F (100°C) 3.8 to 4.8 Amps @77°F (25°C) 16.5 Amps @ 13 sec. max.

#### P.T.C. Starting Device†

Nominal Operating Characteristics

Model Name	PTH490D-AS4R7	PTH7M4R7MD2	
Manufacturer	Murata Mfg.	Murata Mfg.	
Base resistance			
@ 77°F(25°C) $\pm 20\%$	4.7	4.7	Ohms
Power Consumption (max)	3.3	3.0	Watts
Operation time	1.3 to 3.0	0.7 to 2.2	seconds
Recovery time (max)	65	70	seconds

**Run Capacitor**      12  $\mu$ F 180 V (min.)

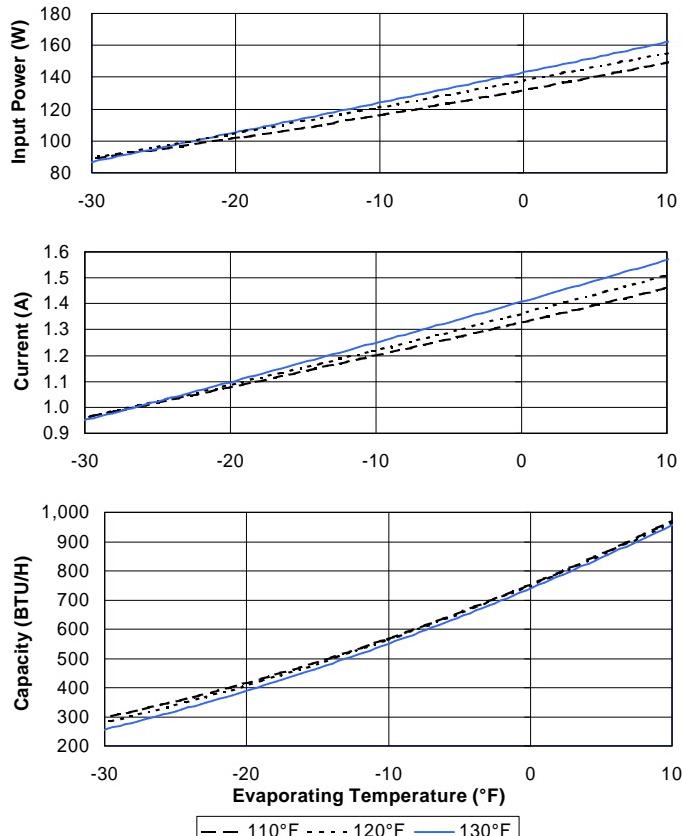
†Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

**Refrigerant Control** ..... Capillary Tube

#### Evaporator

**Temp. Range** ..... -31°F to 23°F / -35°C to -5°C

### Performance Curves



### 9 – Point Data

Condensing Temp.	Evaporating Temp.			
	-30°F	-10°F	+10°F	
<b>130°F</b>	Btu/h	256	550	956
	Watts	87	124	162
	Amps	0.95	1.25	1.57
	E.E.R.	2.94	4.43	5.90
<b>120°F</b>	Btu/h	280	563	963
	Watts	89	121	155
	Amps	0.96	1.22	1.51
	E.E.R.	3.15	4.65	6.21
<b>110°F</b>	Btu/h	297	567	970
	Watts	89	116	149
	Amps	0.96	1.20	1.46
	E.E.R.	3.34	4.89	6.51

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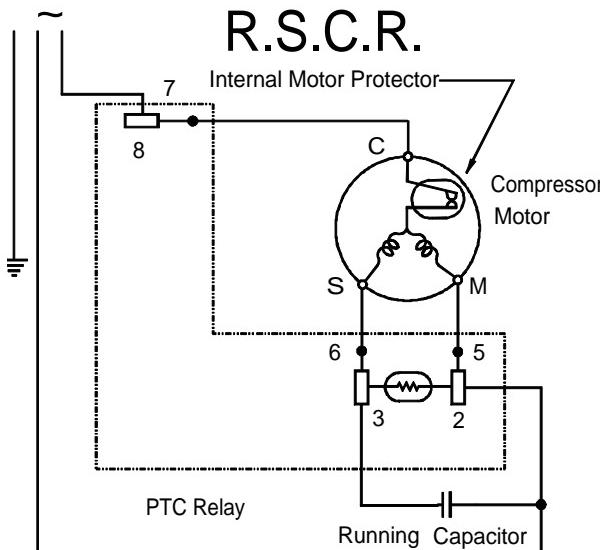
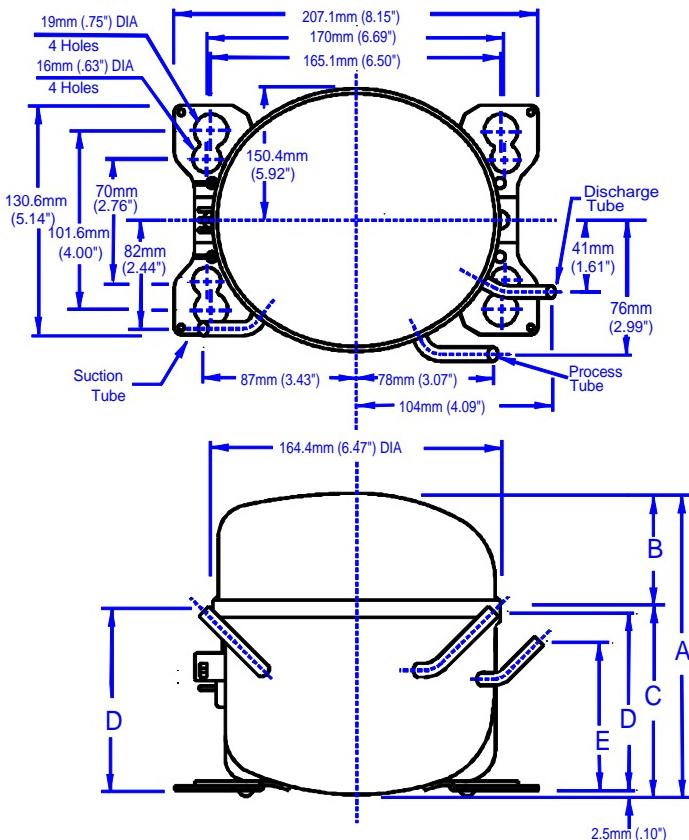
Rev#1-5/9

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115V  
60Hz



## Dimensions\*

	mm	inches
<b>A</b>	172.1	6.78
<b>B</b>	60.9	2.40
<b>C</b>	111.2	4.38
<b>D</b>	102.0	4.02
<b>E</b>	85.0	3.35

\* All dimensions are for reference only

This document sets forth certain operational parameters and conditions for operation of this product. If this product is operated outside of the parameters and conditions stated herein, buyer assumes sole and full responsibility and shall indemnify seller with respect to all product failures and all consequences thereof. Operation of the product outside of the parameters and conditions specified herein shall serve to invalidate all seller warranties, if any, with respect to the product. This document is for reference only. For specifications, please contact Panasonic's engineering department.

Tubes	Tube O.D.	Wall	Material
Suction	0.33 in. / 8.3 mm	0.035 in. / 0.9 mm	Copper
Process	0.3125 in / 7.94 mm	0.028 in. / 0.7 mm	Copper
Discharge	0.28 in. / 7.0 mm	0.041 in. / 1.05 mm	Copper

**U.L. File #** ..... SA 4615

**C.S.A. File #'s** ..... LR - 36593

<b>General Data</b>	Oil Charge ... 195 cc $\pm$ 5 cc / 11.9 cu.in. $\pm$ 0.3 cu.in. Net Weight With Oil ..... 16.3 lbs, 7.4 kg Approved Oils ..... FREOL $\alpha$ 22, FREOL $\alpha$ 22E Residual Moisture ..... 120 mg max. Impurities ..... 7 mg max. Displacement ..... 4.85 cc. / 0.296 cu. in.
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